|           | 7   |                                |               |     |                                 |   |                |  |   |               |          |
|-----------|---|--------------------------------|---------------|-----|---------------------------------|---|----------------|--|---|---------------|----------|
| A.        | AUTHENTICATION<br>SERVER 25                           | ·                              |               |     | ·                               |   |                |  |   |               |          |
| OFFICE LL | AUTHEN<br>SERV  |                                |               |     | ICATION<br>T (S41)              | SWER (OK) (S42)<br>RESERVATION)                           |                |  | ٠ |               |          |
|           | ACCESS<br>R 24  |                                | ·             |     | AUTHENTICATION<br>REQUEST (S41) | AUTHENTICATION ANSWER (OK) (S42)                          |                |  |   |               |          |
| - C       | SECOND SUBSCRIBER REMOTE ACCESS EXCHANGE 23 SERVER 24 | (S34)<br>c (S36)               | (537)         |     |                                 | ON) (S43)   |                |  |   | Z             |          |
| 00100     | P N OF<br>BSCRIBER<br>IGE 23                          | Setup (S34)<br>Call Proc (S36) | Connect (S37) |     |                                 | RESERVATION   |                | (\$45)                                 |   | COMMUNICATION |          |
| ر ر       | ECOND SU<br>EXCHAN                                    | S32)<br>S35)                   | S38)          |     | (240)                           | ADDRESS   |                | IGNMENT)                               |   |               | - Carlon |
| L         |   | IAM (S32)<br>ACM (S35)         | ANM (S38)     |     | AUTHENTICATION REQUEST (S40     | AUTHENTICATION ANSWER (OK) (IP ADDRESS RESERVATION) (S43) | (\$44)         | IPCP Ans (IP ADDRESS ASSIGNMENT) (S45) |   | DURING        |          |
|           | ST SUBSO  | (531)                          | (839)         | LCP | CATION                          | TION ANSW   | IPCP Req (S44) | (IP ADD                                |   | ·             | -        |
|           | UBSCRIBER FIRST SUBSCRIBER EXCHANGE 22                | Setup (S31)<br>Call Proc (S33) | Connect (S39) |     | AUTHENT                         | UTHENTICA   | ٠              | IPCP Ans                               | ٠ |               |          |
|           | UBSCI<br>ERMIN  | <u>_</u>                       | <u>V</u>      |     |                                 | <b>∀</b> ¥  |                | <u> </u>                               |   |               | •        |



F I G. 3 PRIOR ART

| AUTHENTICATION<br>SERVER 25                            |                                |               |   |                                 | ടപ   |                  |              |
|--|--------------------------------|---------------|---|---------------------------------|--|------------------|--------------|
| AUTHEN<br>SERV   |                                |               | ;<br>;<br>;<br>;                        | AUTHENTICATION<br>REQUEST (S51) | ANSWER (NG) (S52<br>RESERVATION  |                  |              |
| ACCESS<br>ER 24  | ·                              |               |   | AUTHEN<br>REQUES                | AUTHENTICATION<br>(IP ADDRESS  |                  |              |
| SECOND SUBSCRIBER REMOTE ACCESS EXCHANGE 23 SERVER 24  | Setup (S34)<br>Call Proc (S36) | Connect (S37) |   |                                 | /ATION) (S53)  |                  |              |
| SUBSCRIBI<br>ANGE 23                                   | Setu<br>Call F                 | Conne         |   |                                 | <br>SS_RESER\  |                  | <del> </del> |
| SECOND SECOND  | IAM (S32)<br>ACM (S35)         | ANM (S38)     |   | T (S50)                         | (IP_ADDRES   | REL (S55)        | )MP (S56)    |
| SCRIBER<br>NGE 22                                      | IAM                            | ANM           | 10b/                                    | REQUES                          | WER (NG)   | REL              | REL COMP     |
| SUBSCRIBER FIRST SUBSCRIBER<br>TERMINAL 21 EXCHANGE 22 | Setup (S31)<br>Call Proc (S33) | Connect (S39) | 7////////////////////////////////////// | AUTHENTICATION REQUEST (S50)    | AUTHENTICATION ANSWER (NG) (IP ADDRESS RESERVATION) (S53) (IP ADDRESS RESERVATION) | Disconnect (S54) |              |
| SUBSC  |                                | C             | OST C                                   | HARG                            | E RA   | NGE              | ,            |